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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-11-15-02 **Date: 18-11-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-11-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg, Min)	288.5	225m^2/kg, Min
3	Density (gm/cc)	2.1	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-11-15-02** **Date: 14-12-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-11-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-15-02** **Date: 18-11-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	305	305	2.0	98.0	90-100
3	20 mm	5647	5952	39.7	60.3	30-70
4	10 mm	4560	10512	70.1	29.9	10-35
5	4.75 mm	4219	14731	98.2	1.8	0-5
6	Pan	269	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-11-15-02 Date: 18-11-17

Sample ID No : 2017-11-15-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.25	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-15-02** **Date: 18-11-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2560	2838	56.8	43.2	25-55
4	4.75 mm	2100	4938	98.8	1.2	0-10
5	Pan	62	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-15-02** **Date: 18-11-17**

Sample ID No : 2017-11-15-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-11-15-02** **Date: 18-11-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-11-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	24	24	2.4	97.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	169	16.9	83.1	60-95	75-100	85-100	95-100
4	1.18 mm	228	397	39.7	60.3	30-70	55-90	75-100	90-100
5	600 micron	186	583	58.3	41.7	15-34	35-59	60-79	80-100
6	300 micron	180	763	76.3	23.7	5-20	8-30	12-40	15-50
7	150 micron	156	919	91.9	8.1	0-10	0-10	0-10	0-15
8	Pan	81	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-11-15-02

Sample ID No : 2017-11-15-02/03

Date: 18-11-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.65	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	7.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	CP-2017-11-20-04 **Date: 21-11-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-04/01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	20-11-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.395	546	675	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.616	564	687	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2017-11-20-04
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-04/02
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	20/11/2017

Date: 24-11-17

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.57	100.47	1.857	4484	94.9	21.2	19.7	24.6
2	Cover Slab-2	75.42	100.62	1.758	4467	95.3	21.3	19.8	24.8
3	Cover Slab-3	75.38	100.22	1.855	4462	94.5	21.2	19.7	24.6

Note:

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-11-20-05 Date: 22-11-17
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads and RCC drains in Mallasandra colony in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE/PD/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-05/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	20-11-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1586	2582	25.82	74.18	55-90
9.5	1292	3874	38.74	61.26	35-65
4.75	1490	5364	53.64	46.36	25-55
2.36	1746	7110	71.10	28.90	20-40
0.425	1735	8845	88.45	11.55	10-25
0.075	987	9832	98.32	1.68	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.35%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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